

13281 U.S. PTO

22856 U.S. PTO  
10/801672

PTO/SB/05 (01-04)

Approved for use through 07/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office. U.S. DEPARTMENT OF COMMERCE

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|   |                               |                   |
|---|-------------------------------|-------------------|
| <b>UTILITY<br/>PATENT APPLICATION<br/>TRANSMITTAL</b><br><br><i>(Only for new nonprovisional applications under 37 CFR 1.53(b))</i> | <b>Attorney Docket No.</b>    | 2107.0730001      |
|   | <b>First Inventor</b>         | Hamid R. Hashemi  |
|   | <b>Title</b>                  | See 1 in Addendum |
|   | <b>Express Mail Label No.</b> |                   |

|  |   |
|--|---|
| <b>APPLICATION ELEMENTS</b><br><i>See MPEP chapter 600 concerning utility patent application contents.</i> | <b>ADDRESS TO:</b><br><b>Mail Stop Patent Application</b><br><b>Commissioner for Patents</b><br><b>P.O. Box 1450</b><br><b>Alexandria VA 22313-1450</b> |
|--|---|

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)  
*(Submit an original and a duplicate for fee processing)*
2. ☐ Applicant claims small entity status.  
 See 37 CFR 1.27.
3. ☒ Specification [Total Pages 27]  
*(preferred arrangement set forth below)*
- Descriptive title of the invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings *(if filed)*
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 4]
5. Oath or Declaration [Total Sheets 2]
- a. ☒ Newly executed (original or copy)
- b. ☐ Copy from a prior application (37 CFR 1.63(d))  
*(for continuation/divisional with Box 18 completed)*
- i. ☐ **DELETION OF INVENTOR(S)**  
 Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☒ Application Data Sheet. See 37 CFR 1.76

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program *(Appendix)*
8. Nucleotide and/or Amino Acid Sequence Submission *(if applicable, all necessary)*
- a. ☐ Computer Readable Form (CRF)
- b. Specification Sequence Listing on:
- i. ☐ CD-ROM or CD-R (2 copies); or
- ii. ☐ Paper
- c. ☐ Statements verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

9. ☒ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement ☐ Power of Attorney  
*(when there is an assignee)*
11. ☐ English Translation Document *(if applicable)*
12. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)  
*(Should be specifically itemized)*
15. ☐ Certified Copy of Priority Document(s)  
*(if foreign priority is claimed)*
16. ☐ Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. ☒ Other: Authorization under 37CFR 1.136(a)(3)  
 The name of the assignee is: Mold-Masters Limited

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: .....

Prior application information:

Examiner

Art Unit:

For CONTINUATION OF DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**19. CORRESPONDENCE ADDRESS**

☒ Customer Number: 26111 OR ☐ Correspondence address below

Name

Address

City

State

Zip Code

Country

Telephone

Fax

Name (Print/Type)

Jason D. Eisenberg

Registration No. (Attorney/Agent)

43,447

Signature

Date

March 17, 2004

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

## Utility Patent Application Transmittal Addendum (2107.0730001)

1. Method And Apparatus For Heating A Nozzle With Radiant Energy

# FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 1,346.00

**Complete if Known**

|                      |                            |
|----------------------|----------------------------|
| Application Number   | To Be Assigned             |
| Filing Date          | Herewith on March 17, 2004 |
| First Named Inventor | Hamid R. Hashemi           |
| Examiner Name        | To Be Assigned             |
| Art Unit             | To Be Assigned             |
| Attorney Docket No.  | 2107.0730001               |

**METHOD OF PAYMENT (check all that apply)**
☐ Check ☒ Credit card ☐ Money Order ☒ Other\*\* ☐ None

☐ \*\*Charge any deficiencies or credit any overpayments in Deposit Account: the fees to Deposit Acct. No. 19-0036

 Deposit Account Number  
 Deposit Account Name

19-0036

Sterne Kessler, Goldstein &amp; Fox P.L.L.C.

The Director is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Credit any overpayments☐ Charge any additional fee(s) or any underpayment of fee(s)☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.**FEE CALCULATION****1. BASIC FILING FEE**

| Large Entity Fee Code (\$) | Small Entity Fee Code (\$) | Fee Description        | Fee Paid           |
|----------------------------|----------------------------|------------------------|--------------------|
| 1001 770                   | 2001 385                   | Utility filing fee     |                    |
| 1002 340                   | 2002 170                   | Design filing fee      |                    |
| 1003 530                   | 2003 265                   | Plant filing fee       |                    |
| 1004 770                   | 2004 385                   | Reissue filing fee     |                    |
| 1005 160                   | 2005 80                    | Provisional filing fee |                    |
| <b>SUBTOTAL (1)</b>        |                            |                        | <b>(\$)</b> 770.00 |

**2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE**

| Total Claims | Extra Claims | Fee from below | Fee Paid |
|--------------|--------------|----------------|----------|
| 45           | 20           | 25             | 18.00    |
| 4            | 3            | 1              | 86.00    |
|              |              |                |          |

| Large Entity Fee Code (\$) | Small Entity Fee Code (\$) | Fee Description  | Fee Paid           |
|----------------------------|----------------------------|--|--------------------|
| 1202 18                    | 2202 9                     | Claims in excess of 20                                     |                    |
| 1201 86                    | 2201 43                    | Independent claims in excess of 3                          |                    |
| 1203 290                   | 2203 145                   | Multiple dependent claim, if not paid                      |                    |
| 1204 86                    | 2204 43                    | ** Reissue independent claims over original patent         |                    |
| 1205 18                    | 2205 9                     | ** Reissue claims in excess of 20 and over original patent |                    |
| <b>SUBTOTAL (2)</b>        |                            |  | <b>(\$)</b> 536.00 |

\*\*or number previously paid, if greater; For Reissues, see above

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

Large Entity Small Entity

| Fee Code (\$) | Fee Code (\$) | Fee Description  | Fee Paid |
|---------------|---------------|--|----------|
| 1051 130      | 2051 65       | Surcharge - late filing fee or oath  |          |
| 1052 50       | 2052 25       | Surcharge - late provisional filing fee or cover sheet                     |          |
| 1053 130      | 1053 130      | Non-English specification  |          |
| 1812 2,520    | 1812 2,520    | For filing a request for <i>ex parte</i> reexamination                     |          |
| 1804 920*     | 1804 920*     | Requesting publication of SIR prior to Examiner action                     |          |
| 1805 1,840*   | 1805 1,840*   | Requesting publication of SIR after Examiner action                        |          |
| 1251 110      | 2251 55       | Extension for reply within first month                                     |          |
| 1252 420      | 2252 210      | Extension for reply within second month                                    |          |
| 1253 950      | 2253 475      | Extension for reply within third month                                     |          |
| 1254 1,480    | 2254 740      | Extension for reply within fourth month                                    |          |
| 1255 2,010    | 2255 1,005    | Extension for reply within fifth month                                     |          |
| 1401 330      | 2401 165      | Notice of Appeal   |          |
| 1402 330      | 2402 165      | Filing a brief in support of an appeal                                     |          |
| 1403 290      | 2403 145      | Request for oral hearing   |          |
| 1451 1,510    | 1451 1,510    | Petition to institute a public use proceeding                              |          |
| 1452 110      | 2452 55       | Petition to revive - unavoidable   |          |
| 1453 1,330    | 2453 665      | Petition to revive - unintentional   |          |
| 1501 1,330    | 2501 665      | Utility issue fee (or reissue)   |          |
| 1502 480      | 2502 240      | Design issue fee   |          |
| 1503 640      | 2503 320      | Plant issue fee  |          |
| 1460 130      | 1460 130      | Petitions to the Commissioner  |          |
| 1807 50       | 1807 50       | Processing fee under 37 CFR 1.17(q)  |          |
| 1806 180      | 1806 180      | Submission of Information Disclosure Stmt                                  |          |
| 8021 40       | 8021 40       | Recording each patent assignment per property (times number of properties) | 40.00    |
| 1809 770      | 2809 385      | Filing a submission after final rejection (37 CFR 1.129(a))                |          |
| 1810 770      | 2810 385      | For each additional invention to be examined (37 CFR 1.129(b))             |          |
| 1801 770      | 2801 385      | Request for Continued Examination (RCE)                                    |          |
| 1802 900      | 1802 900      | Request for expedited examination of a design application                  |          |

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

**SUBTOTAL (3)** (\$) 40.00**SUBMITTED BY**

(Complete if applicable)

|                   |                    |                                   |         |           |                |
|-------------------|--------------------|-----------------------------------|---------|-----------|----------------|
| Name (Print/Type) | Jason D. Eisenberg | Registration No. (Attorney/Agent) | 43,447  | Telephone | (202) 371-2600 |
| Signature         |                    | Date                              | 3/17/04 |           |                |

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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\*Admitted only in Maryland  
\*Admitted only in Virginia  
•Practice limited to Federal Agencies

March 17, 2004

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Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

**Mail Stop Patent Application**

Re: U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)  
Appl. No. *To Be Assigned*; Filed: March 17, 2004  
For: **Method and Apparatus for Heating a Nozzle With Radiant Energy**  
Inventor: Hamid R. Hashemi  
Our Ref: 2107.0730001

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

1. PTO Fee Transmittal (Form PTO/SB/17);
2. PTO Utility Patent Application Transmittal (Form PTO/SB/05);
3. U.S. Utility Patent Application entitled:

**Method and Apparatus for Heating a Nozzle With Radiant Energy**

and naming as inventor:

Hamid R. Hashemi

the application consisting of:

- a. An Application Data Sheet (37 C.F.R. § 1.76);
- b. A copy of an original executed Declaration;
- c. A specification containing:
  - i. 17 pages of description prior to the claims;

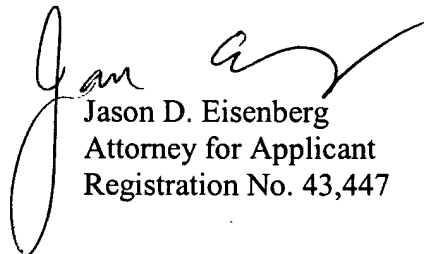
Commissioner for Patents  
March 17, 2004  
Page 2

- ii. 9 pages of claims (45 claims, 4 independent);
  - iii. a one (1) page abstract;
  - d. 4 sheets of drawings: (Figure(s) 1-4, 5A-5B, and 6-9); and
- 4. Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3);
  - 5. Recordation Form Cover Sheet;
  - 6. A copy of original executed Assignment to Mold-Masters Limited, recordation of which is hereby respectfully requested;
  - 7. Two (2) return postcards; and
  - 8. Form PTO-2038 Credit Card Payment Form.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

  
Jason D. Eisenberg  
Attorney for Applicant  
Registration No. 43,447

JDE/crf  
Enclosures

#242253.1



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Hamid R. Hashemi

Appl. No.: *To Be Assigned*

Filed: Herewith on March 17, 2004

For: **Method and Apparatus for Heating  
a Nozzle With Radiant Energy**

Confirmation No.: *To Be Assigned*

Art Unit: *To Be Assigned*

Examiner: *To Be Assigned*

Atty. Docket: 2107.0730001

**Authorization to Treat a Reply as Incorporating an  
Extension of Time Under 37 C.F.R. § 1.136(a)(3)**

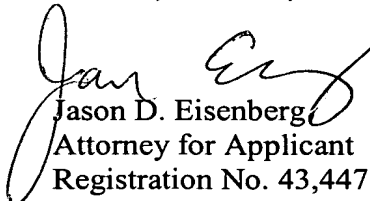
Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Sir:

The U.S. Patent and Trademark Office is hereby authorized to treat any concurrent or future reply that requires a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. The U.S. Patent and Trademark Office is hereby authorized to charge all required extension of time fees to our Deposit Account No. 19-0036, if such fees are not otherwise provided for in such reply.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

  
Jason D. Eisenberg  
Attorney for Applicant  
Registration No. 43,447

Date: March 17, 2004

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#242258.1